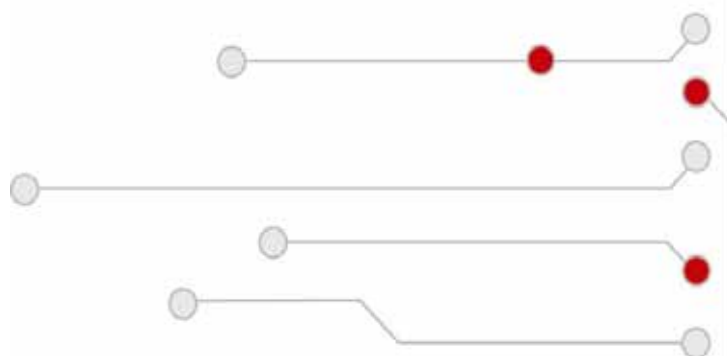


MANAGER MANUAL



ELECTRONIC CASH REGISTERS

CX-3000



CX-3500



Ver

Revision history

Rev.	Date of Issue	Contents of Revision	Notes
1.0	14.07.2010	Version created	UNIWELL edition
1.1	20.08.2010	Manual general update	UNIWELL
1.2	08.09.2010	Updated PRG Sections 3 and 27	UNIWELL
1.3	17.09.2010	Updated PRG Sections 13 and 19	UNIWELL
1.4	23.09.2010	Updated PRG section content	UNIWELL
1.5	30.09.2010	Updated initialisation process	UNIWELL
1.6	21.10.2010	Updated: PRG 13, PRG 19	UNIWELL
1.7	11.11.2010	General update	UNIWELL
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1.9	17.01.2011	PRG section 79 added	UNIWELL
1.10	19.01.2011	PRG section 16 updated	UNIWELL
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1.12	24.03.2011	PRG section 96 added	UNIWELL
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1 Manual instructions

1.1 PROGRAMMING SEQUENCE

1

In order to start programming operations, it is necessary to indicate programming section number and confirm it with [**# / NS**] key, for example:

10 [**# / NS**] ... 10 – number of the section to be programmed

Then values have to be entered and confirmed by [**CASH**] key.

CCCC ... [**CASH**]

In case of erroneous entry, it will be cancelled by pressing [**CLEAR**] key.

To close section programming and exit from section programming procedure, key [**# / NS**] has to be pressed.

1.2 SYMBOLS (AND TERMS) USED IN THIS MANUAL

[**key name**] indicates the function key to be pressed

ff indicates field

vv indicates value

rr indicates record

[**key name**] gray colour indicates the optional function to be performed that can be skipped

2 Initialization

2.1 ECR START, RESTART AND INITIALIZATION

1. RESUME START

The ECR memorizes what operations were on going when power was turned off. In case of power-off (caused by normal shut-off by power switch, power adapter accidental disconnection, mains power supply shortage or operating battery disconnection) ECR logics save data and states of ECR data registers to properly restore them on power recovery. Resume start is to resume the said operations. For example, if printing was on going when power was turned off, that printing is resumed upon resume start (preset data and registered data are maintained), incompletely printed line will be re-printed on next power-on.

2. SOFT START

Procedure used to escape ECR hardware locks and reset device drivers. ECR data will not be affected.

- Press and keep pressed [CLEAR] key for 5 seconds

3. WARM START

Reset procedure. ECR data can be corrupted.
In case of h/w lock:

- Open ECR, press shortly Reset switch.

4. COLD START

ECR will be completely initialized. All preset data and counters cleared and default values set.

Cold start can be activated only by accessing the Reset switch (open cash register), located on main PCB of cash register.

- Press and hold Reset switch.
- At the meantime press [FEED] and [%-] keys.
- Release Reset switch.
- Release [FEED] and [%-] keys within 2 sec after Reset switch has been released.

Note: *Fiscal ECR; Reset sw is not installed for Fiscal ECRs, thus the operation must be executed by using jumper to short connect CN20 pins on mainboard.*

3 Symbol Entry

On each numeral key entry character and number symbols can be obtained. Press the relevant key as many times as necessary till the desired symbol appears on the display. Press the key and hold it to display the numeric symbol of the relevant key.



To delete the last entered character, press:

EC

4 S mode operations

4.1 S MODE SECTIONS

Section, ss	Section name	ff	Establishment Item
01	Memory allocation	01	The number of Department
		02	The number of Payment
		03	The number of Currency
		04	The number of Tax
		05	The number of PLU
		06	The number of Customer accounts
		07	The number of Clerk
		08	The number of Clerk profiles
		09	The number of Clerk groups
		10	The number of Modifier
		11	The number of Preset PLU
		13	The number of Payment card range
		15	The number of Internal error log
		16	The number of Electronic journal lines
		17	The number of Transaction log lines
		18	The number of PO options
		19	The number of RA options
		20	The number of Macro
		21	The number of Link PLU
		22	The number of Automatic promotions
		24	The number of Report lists
02	System settings	01	The number of decimals
		02	Rounding method
		03	Rounding
		04	Date format
		05	Language
		07	Printing density
		08	S mode access password
		09	PRG mode access password
		10	Z mode access password
		11	ECR serial number
		12	Site ID
		13	EJ storage
		14	EJ near full, line count
		15	Receipt printer enable
		16	Journal printer enable
03	Memory clear	01	All RAM Clear
		02	Programming area Clear
		03	PRG section Clear
		04	Report area Clear
04	Key assign	01	Operation
		02	Shift
		03	Alphabet1
		04	Alphabet2
05	Communications	01	Data send timeout (ms)
		02	Data receive timeout (ms)
		03	Response timeout (ms)
		04	Retries
06	Activation codes	01	Reg mode
		02	Fiscal printer mode
08	Fiscal system setup	01	Fiscal serial ID
		02	Fiscal serial number
		03	Tax registration number
		04	Store tax reg number to fiscal module
		05	Store header text to fiscal module
		06	Store tax rates to fiscal module
		07	Fiscalize

4.2 S MODE ACCESS

Enter S mode:

[SHIFT] and **[CASH]**

[R/A / ↑] or **[P/O / ↓]** - select S mode - **[CASH]**.

4.3 S MODE PROGRAMMING

Enter S mode section programming:

ss **[# / NS]**,

ss ... Section number.

Close S mode programming:

[# / NS]

4.4 MEMORY ALLOCATION (S SECTION - 01)

[1] - [# / NS] - ff [X / TIME] - vv [CASH] - [# / NS]

ff ... field number

vv ... value

Field, ff	Field name	Value range, vv	Value set by default
01	The number of Department	1 – 99	99
02	The number of Payment	1 – 99	5
03	The number of Currency	1 – 99	5
04	The number of Tax	Not available 1 – 99	5
05	The number of PLU	1 – 30000	5700
06	The number of Customer accounts	1 – 3000	10
07	The number of Clerk	1 - 99	10
08	The number of Clerk profiles	1 - 10	5
09	The number of Clerk groups	1 – 10	0
10	The number of Modifier	1 – 99	10
11	The number of preset PLU	1 - 99	99
13	The number of Payment card range	1 - 99	10
15	The number of internal error log	1 – 99	99
16	The number of electronic journal lines	1 – 9999	0
17	The number of transaction log lines	1 – 9999	0
18	The number of PO options	1 - 99	5
19	The number of RA options	1 - 99	5
20	The number of macro	1 - 99	5
21	The number of Link PLU	1 - 99	50
22	The number of automatic promotions	1 - 99	0
24	The number of report lists	1 - 99	5

Example: Set number of PLUs 2500.

(S) mode.

[1] [# / NS]

[5] [X / TIME]

[2] [5] [0] [0] [CASH]

[# / NS]

enter MEMORY ALLOCATION Section

select field #5 (number of PLU)

enter “2500” : max number of PLUs 2500

close programming

4.5 SYSTEM SETTINGS (S SECTION - 02)

[2] - [# / NS] - ff [X / TIME] - vv [CASH] - [# / NS]

ff ... field number

vv ... value

Field, ff	Field name	Value range	Value set by default
01	The number of decimals	xxxx : 0 xxx,x : 1 xx,xx : 2 x,xxx : 3	2
02	Rounding method		
03	Rounding	0 – No rounding 1 – rounding 4/5 (SG) 2 – round up (SG) 3 – round down (SG) 4 – rounding 2/3 (SG)	
04	Date format	DD.MM.YY:0 YY.MM.DD:1	0
05	Language	1 – Latvian 2 – English	1
06	Reserved	0 - 999999	000 000 000
07	Printing density	1 – 6 Lightest : 1 Darkest : 6	4
08	S mode access password	Max 20 characters	none
09	PRG mode access password	Max 20 characters	none
10	Z mode access password	Max 20 characters	none
11	ECR serial number	Max 16 characters	00000000
12	Site ID	Max 16 characters	00
13	Electronic journal storage	0: do not store 1: RAM 2: SD	0
14	Electronic journal near full warning, free space (print lines)	0 – max	500
15	Receipt printer enable	0 - 1	1

Example : Set Language - English.

(S) mode

[2] [# / NS]

[5] [X / TIME]

[2] [CASH]

[# / NS]

enter section "SYSTEM SETTINGS"

select field #5 (language set-up)

enter "2": English

close section "SYSTEM SETTINGS"

4.6 MEMORY CLEAR (S SECTION - 03)

[3] - [# / NS] - ff [X / TIME] - [VOID] - [CASH] or [CLEAR] - [# / NS]

ff : field number
 [VOID] : delete command
 [CASH] : delete confirmation
 [CLEAR] : cancel delete operation

Field, ff	Field name	Value range	Value set by default
01	All RAM Clear	ECR RAM clear	01
02	Programming area Clear	PRG area initialization	02
03	PRG section Clear	PRG section selective Clear	03
04	Report area Clear	To initialize all data to be output in reports. In this case, Z1 and Z2 counters are also reset. SuUniwellata as grand total which is not reset by report issuance will also be reset	04

Example : Clear Report counters.

(S) mode

[3] [# / NS] enter section "MEMORY CLEAR"

[4] [X / TIME] select field #4 (report area clear)

[VOID] execute clear command

[CASH] confirm clear command

[# / NS] close section "MEMORY CLEAR"

4.7 CLEARING PROGRAMMED PRG SECTIONS

[3] - [# / NS] - [3] - [X / TIME] - ss - [VOID] - [CASH] or [CLEAR] - [# / NS]

ss ... section number
 [VOID] ... delete command
 [CASH] : delete confirmation
 [CLEAR] : cancel delete operation

PRG section, ss	Section Name
01	Departments
03	PLU
04	Link PLU
08	Payments
09	Modifiers
10	Automatic promotion data
12	ECR machine number
13	ECR system flags
16	Foreign currencies
18	Printer option
19	Print option
23	COM port settings
24	Preset PLUs
26	Clerks
27	Clerk profiles
30	TAX
31	Header
32	Footer
34	Customers
44	Instore barcode settings
45	Report lists
47	Payment card ranges
48	PO options
49	RA options
51	Macro
53	Ethernet communications
54	Online
79	Advanced programming access
90	PRG mode data print
95	Service reminder

Example: Clear Footer Text.

(S) mode	
[3] [# / NS]	enter section "MEMORY CLEAR"
[3] [X / TIME]	select field #3 (PRG section clear)
[3] [2] [VOID]	execute section # 32 (footer text) clear command
[CASH]	confirm clear command
[# / NS]	close section "MEMORY CLEAR"

4.8 KEY ASSIGN (S SECTION – 04)

[4] – [# / NS] – ff [X / TIME] – cc ddd – [key] – [# / NS]

ff ... k/b layout number

cc ... function code

ddd ... key data (number)

(S) layouts can be configured here:

K/b layout number, ff	K/b layout name	K/b layout usage	Operation
1	Operation	S, PRG, REG, X, Z mode	ECR functions
2	Shift	REG mode	ECR functions
3	Alphabet1	REG mode, when [ALPHA] has been pressed	Comment and text entries
4	Alphabet2	REG mode, when [ALPHA] has been pressed repeatedly	Comment and text entries

Note: standard keyboard layout is as follows:

FEED	ALPHA	# NS	X	SHIFT	4	R/A ↑
%-	-	7 ;!@#	8 ABC	9 DEF	3	↓ P/O
EC	RETURN	4 GHI	5 JKL	6 MNO	2	CREDIT
VOID	PRICE	1 PQRS	2 TUV	3 WXYZ	1	SUB TOTAL
CLEAR	PLU	0 A/a/1	00 ┐	.		CASH

Note: Function Keys 34 (RA / UPWARDS) and 35 (PO / DOWNWARDS) can be set to combine RA (PO) functions with navigation keys (UPWARDS and DOWNWARDS). REG mode RA, PO functions, other modes : navigation functions

Function code table:

Function code, cc	Function	Data format, cc ddd
00	NO FUNCTION	00 000
01	FEED	01 000
04	DEPARTMENT	04 NNN (NNN : number)
05	MACRO	05 NNN (NNN : number)
06	TEXT CHARACTER	ASCII code
07	00	07 000
08	000	08 000
09	PRICE	09 000
10	PRICE LEVEL	10 000
11	ALFAB.	11 000
12	ERROR CORRECT	12 000
13	MODIFIER (+, -, %+, %-)	13 NNN (NNN : number)
14	X / TIME	14 000
15	RA	15 NNN (NNN : number)
16	PO	16 NNN (NNN : number)
17	SHIFT	17 000
18	PLU#	18 000
19	PRESET PLU	19 NNN (NNN : number)
20	CLERK	20 000
21	RETURN	21 000
22	VOID	22 000
23	CLEAR	23 000
24	# / NS	24 000
25	SUBTOTAL	25 000
26	PAYMENT	26 NNN (NNN : number)
27	UPWARDS	-
28	DOWNWARDS	-
29	SCALE	29 000
30	CUSTOMER ACC#	30 000
31	RECEIPT COPY	31 000
34	RA / UPWARDS	34 NNN (NNN : number)
35	PO / DOWNWARDS	35 NNN (NNN : number)
36	FOREIGN CURRENCY	36 000
37	RECEIPT OFF	37 000

Example: Assign function keys for PRICE and Payment #4.

(S) mode

[4] [# / NS]

[1] [X / TIME]

[0] [9]] [0] [0] [0] [key]

[2] [6]] [0] [0] [4] [key]

[# / NS]

enter section "KEY ASSIGN"

select keyboard layout #1 (ECR functions)

assign PRICE function key

assign PAYMENT #4 function key

close section "KEY ASSIGN"

4.9 COMMUNICATIONS (S SECTION – 05)

[5] – [# / NS] – ff – [X / TIME] – vv – [CASH] – [# / NS]

ff ... field number
vv ... value

Field, ff	Field name	Value range, vv	Value set by default
01	Data send timeout (ms)	0 – 65535	2000
02	Data receive timeout (ms)	0 – 65535	5000
03	Response timeout (ms)	0 – 65535	1000
04	Retries	0 – 99	5

Example: Set Data receive timeout 2 seconds.

(S) mode

[5] [# / NS]

[2] [X / TIME]

[2]] [0] [0] [0] [CASH]

[# / NS]

enter section “COMMUNICATIONS”

select field #5 (data receive timeout, ms)

enter “2000” : 2 seconds

close section “COMMUNICATIONS”

4.10 ACTIVATION CODES (S SECTION – 06)

[6] – [# / NS] – ff – [X / TIME] – vv – [CASH] – [# / NS]

ff ... field number
vv ... value

Field, ff	Field name	Value range, vv	Value set by default
02	Fiscal printer mode activation	10 symbols	3550632474
03	PC communications activation	10 symbols	3936518423

4.11 FISCAL SYSTEM SETTINGS (S SECTION – 08) – FISCAL VERSION ONLY

[8] – [# / NS] – ff – [X / TIME] – vv – [CASH] – [# / NS]

ff ... field number

vv ... value

Field, ff	Field name	Value range, vv	Value set by default
01	Fiscal serial ID	2 characters	01
02	Fiscal serial number	8 digits	02
03	Tax registration number	14 characters	03
04	Store Tax registration number to fiscal module	0 – no 1 – yes	04
05	Store text header to fiscal module	0 – no 1 – yes	05
06	Store tax rates to fiscal module	0 – no 1 – yes	06
07	Fiscalize	3216	07

4.12 MODE S SETTINGS PRINTOUT (S SECTION – 90)

[90] – [# / NS] – ss – [X / TIME] – 1 – [CASH] – [# / NS]

ss : S section number

1 : print all entries

Section number, ss	Section name
01	Memory allocation
02	System settings
05	Communication settings
08	Activation codes

Example: Print out communication settings

(S) mode

[90] [# / NS] enter section

[6] [X / TIME] select field #6 (communication settings)

[1] [CASH] printout communication settings

[# / NS] close section

5 PRG mode operations

5.1 PRG MODE SECTIONS

PRG section code, SS	PRG section name
01	Department data
03	PLU data
04	Link PLU
08	Tender media data
09	Discount and surcharge (Modifier) data
10	Automatic promotion data
12	Machine number data
13	ECR system option data
14	Date
15	Time
16	Foreign currency data
18	Printer option data
19	Print option data
22	PLU preset key setting
23	RS-232 com port settings data
24	Preset PLU key data
25	PLU price change
26	Clerk data
27	Clerk profile data
30	Tax data
31	Header data
32	Footer data
34	Customer data
44	Instore barcode format data
45	Report lists
47	Loyalty card data
48	PAID OUT descriptor data
49	RECEIVED ON ACCOUNT descriptor data
51	Macro data
52	FTP communication data
53	Ethernet set-up data
54	On-line operation set-up data
79	Advanced programming access
90	PRG mode data print
95	Service reminder

5.2 PRG MODE INITIALIZATION

PRG mode switch:

[SHIFT] and **[CASH]**

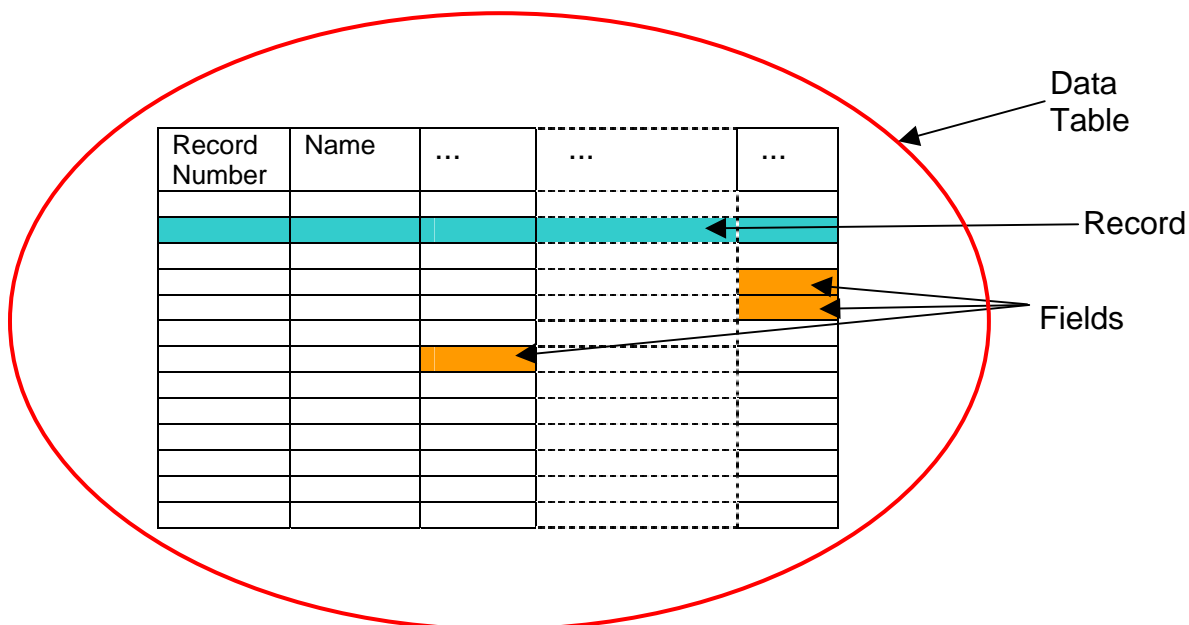
[R/A / ↑] or **[P/O / ↓]** - select PRG mode - **[CASH]**.

5.3 PRG MODE PROGRAMMING DESCRIPTION

PRG mode key operations

Function key	Input format	Operation	Description
[# / NS]	ss [#/NS]	Open Data table	Enter PRG Section
	rr [#/NS]	Go to rr record#	Select record number and press [#/NS]
[X / TIME]	ff [X/TIME]	Go to ff field	Select field number and press [X/TIME]
[SUBTOTAL]	[SUBTOTAL]	Go to next record same field	Move forward to next record
	vv [SUBTOTAL]	Write value vv and go to next record same field#	Store entered value and move to next record
[CASH]	[CASH]	Go to next field ff	Move to next field of same record
	vv [CASH]	Write value vv and go to next field ff	Store entered value and Move to next field of same record
[CLEAR]	[CLEAR]	Clear preset value	Clears preset value of current field

ECR data table example



Note:

1. Entering the PRG section will always be located in data table initial position : record #1, field#1
2. The number of records in each PRG data table is configurable and fixed according to S 01 mode settings
3. Use [#/NS] to escape from PRG section

5.4 DEPARTMENT DATA (PRG SECTION – 01)

Number of Department : Preset by Smode Section 01 - 01

[1] - [# / NS] - rr - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

rr ... department number

ff ... field number

vv ... value

Field, ff	Field name	Description	Format	Value range, vv
01	Name		20 characters	
02	Preset Price		8 digits	0.00 – 999999.99
03	TAX	Tax number	2 digits (0 – nontaxable)	Set according S mode Sect 30
04	HALO/LALO	High Amount Lock Out: Low Amount Lock Out: 0=No limit. 1=1Digit (0 - 9) 2=2Digits (0 - 99) 3=3Digits (0 - 999) 4=4Digits (0 - 9999) 5=5Digits (0 - 99999) 6=6Digits (0 - 999999) 7=7Digits (0 - 9999999)	2 digits; 1st digit stands for HALO value 2nd digit stands for LALO value	00 – 77
05	Negative	0 – positive 1 – negative	1 digit	0 – 1
06	zero price entry allowed	0 – disable 1 – enable	1 digit	0 – 1
07	Department type	1 – standard department 2 – deposit (LT ver.) 3 – tare (LT ver.)	1 digit	1 – 3
08	Single item (CH ver.)	0 – standard 1 – single item	1 digit	0 - 1

5.5 PLU DATA (PRG SECTION – 03)

Number of PLU : Preset by Smode Section 01 – 05

[3] - [# / NS] - rr - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

rr ... department number

ff ... field number

vv ... value

Field, ff	Field name	Description	Format	Value range, vv
01	Name		20 characters	
02	Preset Price 1		8 digits	0.00 – 999999.99
03	Preset Price 2		8 digits	0.00 – 999999.99
04	Preset Price 3		8 digits	0.00 – 999999.99
05	TAX	Tax number	2 digits (0 – nontaxable)	Set according S mode Sect 30
06	Department	Link department number	2 digits	Set according S mode Sect 01
07	HALO/LALO	High Amount Lock Out: Low Amount Lock Out: 0=No limit. 1=1Digit (0 - 9) 2=2Digits (0 - 99) 3=3Digits (0 - 999) 4=4Digits (0 - 9999) 5=5Digits (0 - 99999) 6=6Digits (0 - 999999) 7=7Digits (0 - 9999999)	2 digits; 1st digit stands for HALO value 2nd digit stands for LALO value	00 – 77
08	Negative	0 – positive 1 – negative	1 digit	0 – 1
09	Zero price entry allowed	0 – disable 1 - enable	1 digit	0 - 1
10	PLU group number		2 digits	1 - 99

Note: Barcode scanning can be used for PLU number entry.

5.6 PLU RECORD DELETE (PRG SECTION – 03)

[3] - [# / NS] - rr - [NS] - [VOID] - [CASH] or [CLEAR] - [# / NS]

rr : PLU number
 [VOID] : delete command
 [CASH] : delete confirmation
 [CLEAR] : cancel delete operation

Example: delete PLU No. 45 and all the data programmed for it

PRG mode

[3] [# / NS]

enter section

[4] [5]

enter PLU number

(Barcode scanning can be used for PLU number entry as well.)

[# / NS]

open PLU No.45

[VOID]

delete command

[CASH]

confirm delete

[# / NS]

close section

5.7 LINK PLU DATA (PRG SECTION – 04)

Number of Link PLU : Preset by Smode Section 01 – 21

[4] - [# / NS] - rr - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

rr ... main PLU number

ff ... field number

vv ... value

Field, ff	Field name	Description	Format	Value range, vv
01	Link PLU1	Link PLU1 number	13 digits	1 – 9999999999999
02	Link PLU2	Link PLU2 number	13 digits	1 – 9999999999999
03	Link PLU3	Link PLU3 number	13 digits	1 – 9999999999999
04	Link PLU4	Link PLU4 number	13 digits	1 – 9999999999999
05	Link PLU5	Link PLU5 number	13 digits	1 – 9999999999999

5.8 TENDER MEDIA DATA (PRG SECTION – 08)

Number of Tender media : Preset by Smode Section 01 – 02

[8] - [# / NS] - rr - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

rr ... media number

ff ... field number

vv ... value

Field, ff	Field name	Description	Format	Value range, vv
01	Name		20 characters	
02	Currency	Select according PRG mode Sect 16 settings	2 digits;	0 – 99 Set according S mode Sect 01
03	Amount tendered compulsory	0 – free 1 – compulsory	1 digit	0 – 1
04	Over Tender prohibited	0 – allowed 1 – prohibited	1 digit	0 – 1
05	Under Tender prohibited	0 – allowed 1 – prohibited	1 digit	0 – 1
06	Authorization slip print	0 – not printed 1 – printed	1 digit	0 – 1
07	Subtotal gradation	(for foreign currency tenders)	3 digits	0.01-1.00
08	Open cash drawer	0 – open 1 – stay closed	1 digit	0 – 1
09	R / A prohibit	0 – R/A enabled 1 – R/A disabled	1 digit	0 – 1
10	P / O prohibit	0 – P / O enabled 1 – P / O disabled	1 digit	0 – 1
11	Negative balance in drawer control	0 - Negative amount in driver enabled 1 – Negative amount in driver disabled	1 digit	0 – 1
12	HALO/LALO	High Amount Lock Out: Low Amount Lock Out: 0=No limit. 1=1Digit (0 - 9) 2=2Digits (0 - 99) 3=3Digits (0 - 999) 4=4Digits (0 - 9999) 5=5Digits (0 - 99999) 6=6Digits (0 - 999999) 7=7Digits (0 - 9999999)	2 digits; 1st digit stands for HALO value 2nd digit stands for LALO value	00 – 77

Note: Tender No1 is preset for Cash operations.

5.9 DISCOUNT AND SURCHARGE (MODIFIER) DATA (PRG SECTION – 09)

Number of Modifier : Preset by Smode Section 01 - 10

[9] - [# / NS] - rr - [NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

rr ... modifier number
ff ... field number
vv ... value

Field, ff	Field name	Description	Format	Value range, vv
01	Name	Modifier name	20 symbols	
02	Amount	Preset amount	8 digits	0.00 – 999999.99
03	Rate	Preset percent rate	4 digits	0.00 – 99.99
04	Type	0 – discount 1 – surcharge	1 digit	0 – 1
05	Rate/ Amount	0 – amount 1 – percent	1 digit	0 – 1
06	Fixed	0 – open 1 – fixed	1 digit	0 – 1
07	Option	1 – item applicable 2 – subtotal applicable 3 – item and subtotal applicable 4 – total modifier	1 digit	1 – 4
08	PLU group	The group to which the modifier will be applied to	2 digits	1-99, 0 – all groups

5.10 AUTOMATIC PROMOTION DATA (PRG SECTION – 10)

Number of Modifier : Preset by Smode Section 01 - 22

[1] - [0] - [# / NS] - rr - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

rr ... automatic promotion number

ff ... field number

vv ... value

Field, ff	Field name	Description	Format	Value range, vv
01	Trigger condition	1 – item quantity 2 – subtotal amount	1 digit	1 – 2
02	Modifier	Link modifier number	2 digits	1 – 99
03	Quantity	Sales quantity for promotion activation	1 digit	0.001 - 99999.999 0.000 – always apply
04	Amount	Sales amount for promotion activation	1 digit	0.01 ... 9999999.99 0.00 – always apply
05	PLU group effective	PLU group used for promotion application	2 digits	1 – 99 0 – all items

5.11 MACHINE NUMBER DATA (PRG SECTION – 12)

[1] - [2] - [# / NS] - vv - [CASH] - [# / NS]

vv ... value

Field, ff	Field name	Description	Format	Value range, vv
01	MC Number		4 characters	0001 – 9999

5.12 ECR OPTION DATA (PRG SECTION – 13)

[1] - [3] - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

ff ... field number

vv ... value

Field, ff	Field name	Value range, vv	Default value
01	Buzzer audible tone	0 – disabled 1 – enabled	1 – enabled
02	Include Department Report in Financial report	0 – disabled 1 – enabled	0 – disabled
03	Do not zero skip on report	0 – disabled 1 – enabled	0 – disabled
04	Subtotal compulsory	0 – disabled 1 – enabled	0 – nav
05	Price shift do not stay	0 – disabled 1 – enabled	1 – enabled
06	Header print on journal for report only	0 – disabled 1 – enabled	1 – enabled
07	Receipt copy active	0 – disabled 1 – enabled	1 – enabled
08	Reset Receipt number after Z report	0 – disabled 1 – enabled	0 – nav
09	Item modifiers affect PLU and Department report amounts	0 – disabled 1 – enabled	1 – enabled
10	Allow Return in sales receipt	0 – disabled 1 – enabled	0 – disabled
11	Multiple R/A, P/O disable	0 – disabled 1 – enabled	1 – enabled
12	Journal printer PRG and S mode active	0 – disabled 1 – enabled	1 – enabled
13	Receipt cutter active	0 – disabled 1 – full cut 2 – partial cut	1 – partial cut
14	Compact Z report print mode	0 – disabled 1 – enabled	0 – disabled
15	Allow change in foreign currency	0 – disabled 1 – enabled	0 – disabled
16	Clerk system active	0 – disabled 1 – enabled	0 – disabled
17	Receipt post-issue	0 – disabled 1 – enabled	0 – disabled
18	Header text centering	0 – disabled 1 – enabled	0 – disabled
19	Receipt printer Reg mode active	0 – disabled 1 – enabled	1 – enabled
20	Journal printer X mode active	0 – disabled 1 – enabled	1 – enabled
21	Input masking	0 – disabled 1 – enabled	0 – disabled
22	Net Grand total active	0 – disabled 1 – enabled	0 – disabled
23	Subtotal rounding	0 – disabled 1 – enabled	0 – disabled
24	Clerk auto log-out	0 – disabled 1 – enabled	0 – disabled
25	Print multiple single item receipts	0 – disabled 1 – enabled	0 – disabled
26	Recalculate taxes on daily Z report	0 – disabled 1 – enabled	0 – disabled

Field, ff	Field name	Value range, vv	Default value
24	Clerk auto log-out	0 – disabled 1 – enabled	0 – disabled
25	Print multiple single item receipts	0 – disabled 1 – enabled	0 – disabled
26	Recalculate taxes on daily Z report	0 – disabled 1 – enabled	0 – disabled
27	Compact tax table	0 – disabled 1 – enabled	0 – disabled
28	Print in PRG mode	0 – disabled 1 – enabled	1 – enabled
29	Auto daylight saving time change	0 – disabled 1 – enabled	0 – disabled

5.13 DATE (PRG SECTION - 14)

[1] - [4] - [# / NS] - vv - [CASH] - [# / NS]

vv ... value

Field, ff	Field name	Description	Format	Value range, vv
01	Date	DD MM YY or YY MM DD DD : day (01 – 31) MM : month (1 – 12) YY : year (00 – 99)	6 digits	010101 – 311299 or 010101 – 991231

5.14 TIME (PRG SECTION – 15)

[1] - [5] - [# / NS] - vv - [CASH] - [# / NS]

vv ... value

Field, ff	Field name	Description	Format	Value range, vv
01	Time	HH MM HH : hour (00 – 23) MM : minutes (00 – 59)	4 digits	0000 – 2359

5.15 FOREIGN CURRENCY DATA (PRG SECTION – 16)

Number of Currency : Preset by Smode Section 01 - 03

[1] - [6] - [# / NS] - rr - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

rr ... currency number

ff ... field number

vv ... value

Field, ff	Field name	Description	Format	Value range, vv
01	Name		20 characters	
02	Rate	Currency exchange rate	10 digits	0 – 99999.99999
03	Decimals	Signs after the comma	1 digit	0 – 3

5.16 PRINTER OPTION DATA (PRG SECTION – 18)

[1] - [8] - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

ff ... field number

vv ... value

Field, ff	Field name	Value range, vv	Default value
01	Receipt	1: compressed (except BY) 2: regular 3: double height	2: regular
05	Header text	1: compressed 2: regular 3: double height	2: regular
06	Footer text	1: compressed 2: regular 3: double height	2: regular
07	ECR S/N	1: compressed 2: regular 3: double height	2: regular
08	Receipt number	1: compressed 2: regular 3: double height	2: regular
09	Sales item	1: compressed 2: regular 3: double height	2: regular
10	Sales total	1: compressed 2: regular 3: double height	2: regular
11	Payment	1: compressed 2: regular 3: double height	2: regular
12	Change	1: compressed 2: regular 3: double height	2: regular
13	Customer number	1: compressed 2: regular 3: double height	2: regular
14	Customer name	1: compressed 2: regular 3: double height	2: regular

5.17 ITEM PRINT OPTION DATA (PRG SECTION – 19)

[1] - [9] - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

ff ... field number

vv ... value

Field, ff	Field name	Value range, vv	Default value
01	PLU code on receipt	0 – don't print 1 – print	0
02	TAX information on receipt	0 – don't print 1 – print	0
03	Zero price on receipt	0 – don't print 1 – print	1
04	Subtotal on depression	0 – don't print 1 – print	0
05	"No Sale" receipt	0 – don't print 1 – print	1
06	TAX Grand total on report	0 – don't print 1 – print	0
07	Graphical logo active	0 – don't print 1 – print	0
08	FC rates on Financial report	0 – don't print 1 – print	1
09	Sales total amount in 2nd currency	0 – don't print 1 – print	1
10	Quantity on receipt for instore barcode PLU with price	0 – don't print 1 – print	1
11	ECR number	0 – don't print 1 – print	0
12	Taxable amount on receipt	0 – don't print 1 – print	1
13	TAX applicable amount on receipt	0 – don't print 1 – print	1
14	TAX amount on receipt	0 – don't print 1 – print	1
15	FC rate on receipt	0 – don't print 1 – print	0
16	Sales Grand total on Financial report	0 – don't print 1 – print	1
17	TAX information on Financial report	0 – don't print 1 – print	0
18	Statistics details on Financial report	0 – don't print 1 – print	1
19	Negative sales total on Financial report	0 – don't print 1 – print	1
20	PC communication commands on journal	0 – don't print 1 – print	0
21	Graphic logo on receipt finalisation	0 – don't print 1 – print	0
22	Header on receipt finalisation	0 – don't print 1 – print	0
23	Error Correct on financial report	0 – don't print 1 – print	0
24	Negative transaction on report	0 – don't print 1 – print	0
25	Refunds on report	0 – don't print 1 – print	0
26	Modifiers on report	0 – don't print 1 – print	0
27	Graphical logotype on reports	0 – don't print 1 – print	0
28	Total barcode (CZ version only)	0 – don't print 1 – print	0

5.18 PLU PRESET KEY SETTING (PRG SECTION – 22)

PLU keys : Preset by Smode Section 04 - 19

[2] - [2] - [# / NS] - [SHIFT] - vv - [programmable PLU key] - [# / NS]

vv : PLU number

To set PLU code for a key, enter or scan PLU code and press the key for which the desired PLU number has to be set.

Key [**SHIFT**] is used to set two PLU coded for one key.

5.19 RS-232 COM PORT SETTINGS DATA (PRG SECTION – 23)

[2] - [3] - [# / NS] - rr - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

rr ... RS-232 port number

ff ... field number

vv ... value

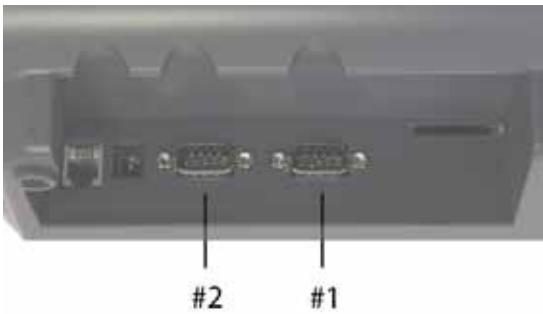
Field, ff	Field name	Description	Format	Value range, vv
01	Device type	0 – NC 1 – PC 2 – Barcode scanner 3 – Scale DIGI 7 – Scale Acom 7 – Scale MK-15	1 digit	0 – 3, 7
02	Baud rate	1 - 2400 2 - 4800 3 – 9600 4 – 19200 5 – 38400	1 digit	1 – 3
03	Data bits	1 – 8 bits 2 – 7 bits	1 digit	1 – 2
04	Parity	1 – no parity 2 – odd 3 – even	1 digit	1 – 3
05	Stop bits	1 – 1 stop bit 2 – 2 stop bits	1 digit	1 – 2
06	Flow control	1 – None 2 – hardware 3 – RTS/CTS	1 digit	1 – 3

Note: Same type of device can not be assigned to more than one com port.

RS-232 com port Default settings:

Field, ff	COM 1	COM 2
01	1 – PC	2 – BCR
02	5 – 38400	3 – 9600
03	1 – 8 bits	1 – 8 bits
04	2 – odd	1 – no parity
05	1 – 1 stop bit	1 – 1 stop bit
06	2 – hardware	1 – none

RS-232 communication ports:



5.20 PLU PRESET KEY DATA (PRG SECTION – 24)

Number of PLU preset key : Preset by Smode Section 01 - 11

[2] - [4] - [# / NS] - rr - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

rr ... PLU preset key number

ff ... field number

vv ... value

Field, ff	Field name	Description	Format	Value range, vv
01	PLU number		13 digits	0 - 9999999999999

5.21 PLU PRICE CHANGE (PRG SECTION – 25)

[2] - [5] - [# / NS] - rr - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

rr ... PLU number

ff ... field number

vv ... value

Field, ff	Field name	Description	Format	Value range, vv
01	Price		8 digits	0.00 – 999999.99

Note: Options for PLU to be selected:

- 1) Enter PLU number, press [NS]
- 2) Use [SUBTOTAL] to move to desired PLU
- 3) Use barcode scanner to scan PLU code
- 4) Use preset PLU key.

Selected Price level *n* stays until changed to another Price level. Available Price levels 1, 2, 3.

5.22 CLERK DATA (PRG SECTION – 26)

Number of Clerk : Preset by Smode Section 01 - 07

[2] - [6] - [# / NS] - rr - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

rr ... clerk number

ff ... field number

vv ... value

Field, ff	Field name	Description	Format	Value range, vv
01	Name		20 characters	
02	Clerk key ID	Clerk i-button preset number	12 digits	0 - ffffffff
03	Password	None – no password	20 digits	None, 0 – 999999...
04	Profile	0 – no profile assigned 1 – 99 profile number	2 digits	0 – 99 Set according S mode Sect 01

5.23 CLERK PROFILE DATA (PRG SECTION – 27)

Number of Clerk profile : Preset by Smode Section 01 - 08

[2] - [7] - [# / NS] - rr - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

rr ... clerk profile number

ff ... field number

vv ... value

Field, ff	Field name	Description	Format	Value range, vv
01	Name		20 characters	
02	S mode operations	0 – disable 1 – enable	1 digit	0 - 1
03	PRG mode operations	0 – disable 1 – enable	1 digit	0 - 1
04	REG mode operations	0 – disable 1 – enable	1 digit	0 - 1
05	X mode operations	0 – disable 1 – enable	1 digit	0 - 1
06	Z mode operations	0 – disable 1 – enable	1 digit	0 - 1
07	Return function	0 – disable 1 – enable	1 digit	0 - 1
08	Void function	0 – disable 1 – enable	1 digit	0 - 1
09	EC function	0 – disable 1 – enable	1 digit	0 - 1
10	Price change function	0 – disable 1 – enable	1 digit	0 - 1
11	Training function	0 – disable 1 – enable	1 digit	0 - 1

5.24 TAX DATA (PRG SECTION – 30)

Number of Tax : Preset by Smode Section 1 – 4

[3] - [0] - [# / NS] - rr - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

rr ... clerk profile number

ff ... field number

vv ... value

Field, ff	Field name	Description	Format	Value range, vv
01	Rate	Tax rate	4 digits	0 – 99.99
02	Type	1 – VAT 2 – add-on tax	1 digit	1 – 2

Note: Number of Tax is country dependant value.

5.25 HEADER DATA (PRG SECTION – 31)

Number of Header text lines : Preset by Smode Section 1 – 7

[3] - [1] - [# / NS] - rr - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

rr ... header text line number

ff ... field number

vv ... value

Field, ff	Field name	Description	Format	Value range, vv
01	Header text line		20 characters	

Note: Empty lines are not printed.

5.26 FOOTER DATA (PRG SECTION – 32)

Number of Footer text lines : Preset by Smode Section 1 – 3

[3] - [2] - [# / NS] - rr - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

rr ... footer text line number
ff ... field number
vv ... value

Field, ff	Field name	Description	Format	Value range, vv
01	Footer text line		20 characters	01

Note: Empty lines are not printed.

5.27 CUSTOMER DATA (PRG SECTION – 34)

Number of Customer : Preset by Smode Section 01 - 06

[3] - [4] - [# / NS] - rr - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

rr ... footer text line number
ff ... field number
vv ... value

Field, ff	Field name	Description	Format	Value range, vv
01	Customer text, line1		20 characters	
02	Customer text, line2		20 characters	
03	Customer text, line3		20 characters	
04	Customer text, line4		20 characters	
05	Customer discount		4 digits	0.00 – 99.99
06	Modifier	0 – no modifier assigned 1 – 99 modifier number	2 digits	0 - 99

5.28 TOTAL BARCODE (CZ VERSION ONLY) (PRG SECTION- 43)

Barcode format includes: Fixed data, Variable data, Check digit

A – fixed data

v – variable data

C – price verifier (price check digit)

cd – check digit

[4] - [4] - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

ff ... field number

vv ... value

Field, ff	Field name	Description	Format	Value range, vv
01	Barcode format	1 – AAAAAAAAAvvvvcd 2 – AAAAAAAAAvvvvcd 3 – AAAAAAavvvvvcd 4 – AAAAAAACvvvvcd 5 – AAAAAACvvvvcd	1 digit	1 – 5
02	Digits for variable section	0 – 0 4 – 4 5 – 5	1 digit	0, 4, 5
03	Decimals for variable section	0 – 4 0 – 5	1 digit	0 – 4

5.29 INSTORE BARCODE FORMAT DATA (PRG SECTION- 44)

Instore barcodes have the following structure:

FF ccccc V V V V V cd

FF – 20...29

ccc..cc – article

vvv...vv – variable part

cd – control digit

[4] - [4] - [# / NS] - rr - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

rr ... barcode flag data (20 – 29)

ff ... field number

vv ... value

Field, ff	Field name	Description	Format	Value range, vv
01	Variable section V type	1 – PLU code 2 – Price 3 – Weight 4 – Price with check digit 5 – Weight with check digit	1 digit	1 – 3
02	Digits for variable section	0 – 0 4 – 4 5 – 5	1 digit	0, 4, 5
03	Decimals for variable section	0 – 4 0 – 5	1 digit	0 – 4

Note: Instore barcodes can be defined for EAN-13 barcodes using flag data 02,20 – 29:

5.30 REPORT LISTS (PRG SECTION- 45)

Number or report lists : Preset by S mode Section 01 - 24

[4] - [5] - [# / NS] - rr - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

rr ... report list number
ff ... field number
vv ... value

Field, ff	Field name	Description	Format	Value range, vv
01	Report No. 1	Report list code	2 digits	1 – 99
02	Report No. 2	Report list code	2 digits	1 – 99
03	Report No. 3	Report list code	2 digits	1 – 99
04	Report No. 4	Report list code	2 digits	1 – 99
05	Report No. 5	Report list code	2 digits	1 – 99

5.31 PAYMENT CARD RANGE DATA (SECTION – 47)

Number of Payment card types : Preset by S mode Section 01 - 13

[4] - [7] - [# / NS] - rr - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

rr ... card range number
ff ... field number
vv ... value

Field, ff	Field name	Description	Format	Value range, vv
01	Range start, 6 digits	ssssssxxxxxxxxxx	6 digits	000000 – 999999.
02	Range end, 6 digits	eeeeeexxxxxxxxxx	6 digits	000000 – 999999.
03	Card type	1 – loyalty account 2 – payment card	1 digit	1 – 2
04	Tender media number	Select according PRG mode Sect 08 settings	2 digits	Set according S mode Sect 01
05	Default customer number	Providing of client No. entries	16 digits	1-9999....

5.32 PAID OUT DESCRIPTOR DATA (SECTION – 48)

Number of Paid out description : Preset by S mode Section 01 - 18

[4] - [8] - [# / NS] - rr - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

rr ... "Paid-out" number
ff ... field number
vv ... value

Field, ff	Field name	Description	Format	Value range, vv
01	PO descriptor		20 characters	

5.33 RECEIVED ON ACCOUNT DESCRIPTOR DATA (SECTION – 49)

Number of Receive on account : Preset by S mode Section 01 - 19

[4] - [9] - [# / NS] - rr - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

rr ... "Received on account" number
ff ... field number
vv ... value

Field, ff	Field name	Description	Format	Value range, vv
01	RA descriptor		20 characters	

5.34 MACRO KEY DATA (SECTION – 51)

Macro key : Preset by Smode Section 04

[5] - [1] - [# / NS] - [MACROa] - [Key 1] - [Key 2] . . . [Key n] - [MACROa] - [# / NS]

[MACROa] : the programmed macro key
[KEY 1], [KEY 2] . . . [KEY n] : any combination of keys

- Sequence of max 10 key entries can be preset to one macro key
- To be able to record macro key, at first it has to be preset in S mode section 01-04 in the preferable keyboard layout.
- The record has to begin and end with the same macro key.
- During the record operation the number of keys left is displayed.
- Macro record sequence cannot include another macro key. If another macro key is pressed, error is displayed.
- After clearing the error with [CLEAR], if the error has resulted during the record procedure, the entered key sequence is cancelled.

Note: Sequence of max 10 key entries can be preset to one macro key.

5.35 ADVANCED PROGRAMMING ACCESS (SECTION – 79)

[7] - [9] - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

ff : field number
vv : value

Field, ff	Field name	Description	Format	Value range, vv
01	Access to ECR programming sections	0 – basic mode 1 – all programming	1 digit	0 - 1
02	Password		20 characters	

5.36 PRG MODE DATA PRINT (SECTION – 90)

[9] - [0] - [# / NS] - ss - [X / TIME] – [1] - [CASH] - [# / NS]

ss : PRG section number
1 : print all records

Note: See PRG section numbers in „4.1. PRG mode sections”

Example: Print PLU data/

REG mode.

[9] [0] [# / NS] enter section
[1] [X / TIME] select field 1 (PLU data)
[1] [CASH] print PLU data
[# / NS] exit section

Note: To interrupt print out, press [CLEAR] key during printing.

5.37 SERVICE REMINDER (SECTION – 95)

[9] - [5] - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

ff ... field number
vv ... value

Field, ff	Field name	Description	Format	Value range, vv
01	Reminder display text		20 characters	
02	Reminder display text start date	DD MM YY or YY MM DD DD : day (01 – 31) MM : month (1 – 12) YY : year (00 – 99)	6 digits	010101 – 311299 or 010101 – 991231
03	Reminder text for print		20 characters	
04	Reminder text for print start date	DD MM YY or YY MM DD DD : day (01 – 31) MM : month (1 – 12) YY : year (00 – 99)	6 digits	010101 – 311299 or 010101 – 991231

5.38 SCHEDULED TAX CHANGE (SECTION – 96) (HU VERSION ONLY)

[9] - [6] - [# / NS] - ff - [X / TIME] - vv - [CASH] - [# / NS]

ff ... field number
vv ... value

Field, ff	Field name	Description	Format	Value range, vv
01	Valid date	TAX change preset date	YYYY.MM.DD	
02	Rate, TAX A	New rate for TAX A	4 digits	0 - 99.99
03	Rate, TAX B	New rate for TAX B	1 digit	0 - 99.99
04	Rate, TAX C	New rate for TAX C	1 digit	0 - 99.99

6 Character Table

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
2		!	"	#	\$	%	&	'	()	*	+	,	-	.	/
3	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
4	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
5	P	Q	R	S	T	U	V	W	X	Y	Z	[\]	^	_
6	`	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
7	p	q	r	s	t	u	v	w	x	y	z	{		}	~	□
8	€		,		„	...	†	‡		‰		<		ˆ	˜	,
9		‘	’	“	”	•	—	—		™		>		—	˙	
A			ø	£	¤		¦	§	Ø	©	℞	«	¬		®	Æ
B	°	±	²	³	´	µ	¶	·	ø	¹	ℓ	»	¼	½	¾	æ
C	À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ě	Ĝ	Ĥ	Ĭ
D	Š	Ň	Ň	Ó	Ô	Õ	Ö	×	Ů	Ł	Ś	Ū	Ū	Ž	Ž	ß
E	ą	ı	ā	ć	ä	å	ę	ē	č	é	ž	é	ğ	ķ	ī	ı
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